

IN THE CLAIMS

Claim 1 (original) A Positive Temperature Coefficient (PTC) thermistor having a safety structure for preventing continuous breakage, comprising:

- a casing made of a heat-resistant, insulating and nonflammable material;
- a PTC element provided with electrodes formed by coating both sides of a coin-shaped body formed of barium titanate ceramic as a chief ingredient with a conducting material, such as silver;
- an insulation holder adapted to fixedly hold the PTC element so that the PTC element is stably accommodated in an inner space of the casing;
- two conductive tap terminals accommodated in the casing;
- two spring terminals each connected to the tap terminals, each bent symmetrically and oppositely and each brought into contact with the electrodes of the PTC element with the PTC element being disposed therebetween; and
- a cap provided with holes formed at positions brought into contact with the tap terminals, and two insulation walls extended from a bottom of the cap;

wherein a weak portion is formed in a portion of each of the spring terminals connected to the tap terminals so as both to allow a current to be applied to the PTC element while connecting with the PTC element and to act as a fuse that is cut off at a time of inflow of an overcurrent.

Claim 2 (original) The PTC thermistor as set forth in claim 1, wherein the weak portion formed in the portion of each of the spring terminals is integrated with the spring terminals using a same material as the spring terminals.

Claim 3 (currently amended) The PTC thermistor as set forth in claim 1 or 2, wherein the weak portion formed in the portion of each of the spring terminals is formed at one or more locations.

Claim 4 (currently amended) The PTC thermistor as set forth in ~~claims 1 to 3~~ claim 1, wherein the weak portion is not formed in each of the spring terminals, but formed in each of the tap terminals.

Claim 5 (currently amended) The PTC thermistor as set forth in ~~any of claims 1 to 4~~ claim 1, wherein the weak portion is defined by an angled or a rounded notch.

Claim 6 (currently amended) The PTC thermistor as set forth in ~~any of claims 1 to 5~~ claim 1, wherein the weak portion is formed so that a first edge is made weak by cutting out a second edge, or a center portion is made weak by cutting out both edges.

Claim 7 (currently amended) The PTC thermistor as set forth in ~~any of claims 1 to 6~~ claim 1, wherein the weak portion is formed in another portion of each of the spring terminals or the tap terminals where a forming process is easily performed.

Claim 8 (currently amended) The PTC thermistor as set forth in ~~any of claims 1 to 7~~
claim 1, wherein the weak portion is formed to have a size t ranging from 0.1 mm to 0.8
mm so as to act as a fuse and allow the current to flow there through without hindrance.